FIG.1

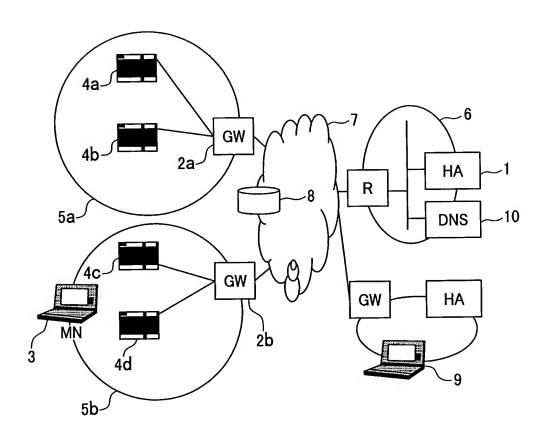


FIG.2

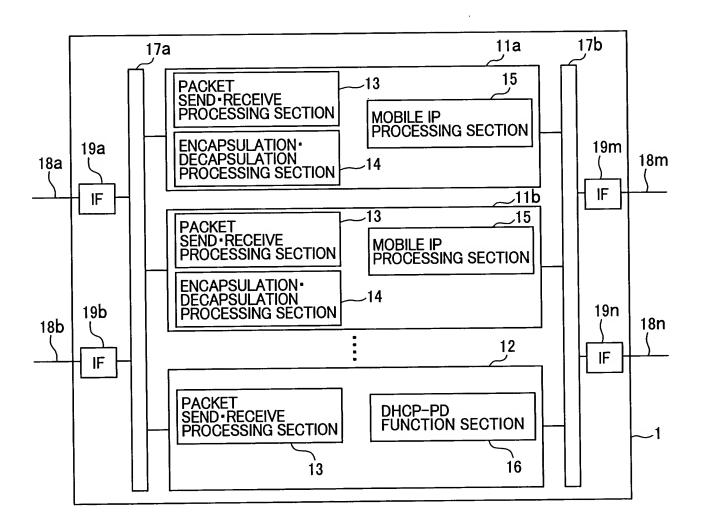


FIG.3

330 BINDING CACHE MANAGEMENT TABLE

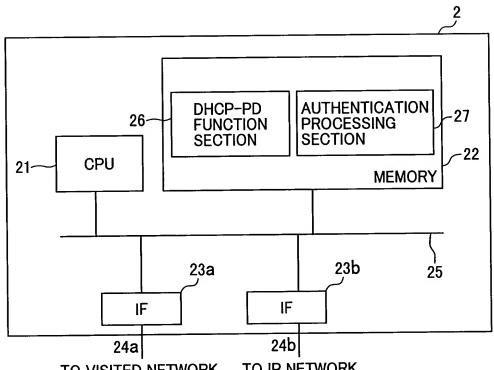
| 331 | 332 | 333 | |
|-----------------|--------------------|----------|-------|
| HOME ADDRESS | CARE OF ADDRESS | LIFETIME | |
| | | | 330–1 |
| | | | 330-2 |
| | | | 330-n |

FIG.4

310 PREFIX MANAGEMENT TABLE(HA)

| 311 | 312 | 313 | 314 | |
|---------------------------|------|--------|----------|-------|
| DHCP CLIENT IDENTIFIER | IAID | PREFIX | LIFETIME | |
| | | | | 310-1 |
| | | | | 310-2 |
| | | | | 310-n |

FIG.5



TO IP NETWORK TO VISITED NETWORK

FIG.6

320 PREFIX MANAGEMENT TABLE(GW)

| 321 | 322 | 323 | 324 | 325 | |
|-------|------|--------|----------|---------------------------|-------|
| IA_PD | IAID | PREFIX | LIFETIME | DHCP SERVER IDENTIFIER | |
| | | | | | 320-1 |
| | | | | | 320-2 |
| | | | | | 320-n |

FIG.7

340 ACCEPTABLE IP ADDRESS LIST

| 341 | 342 | |
|------------|----------|-------|
| IP ADDRESS | LIFETIME | |
| | | 340-1 |
| | | 340-2 |
| | | |
| | | 340-n |

FIG.8

350 ZONE FILE

| 351 | 352 | |
|------|------------|-------|
| FQDN | IP ADDRESS | |
| | | 350-1 |
| | | 350-2 |
| 7 | | |
| | | 350−n |

FIG.9

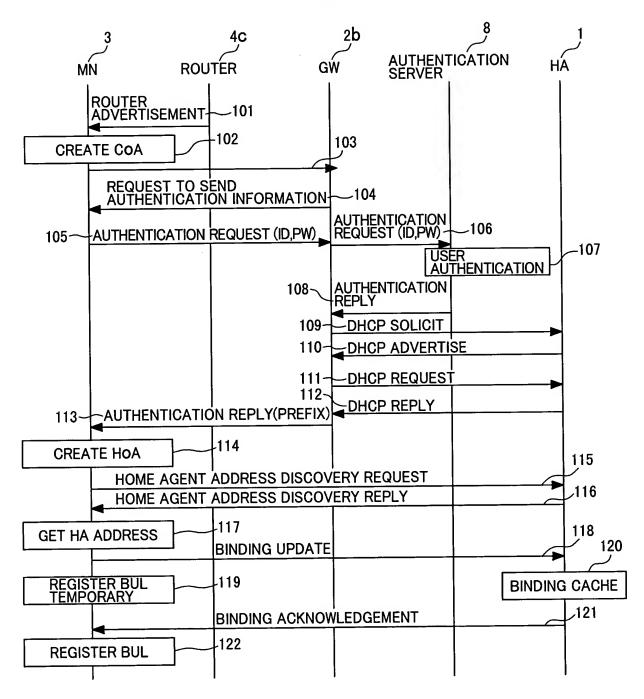


FIG.10

70 AUTHENTICATION PROCESSING ROUTINE(GW)

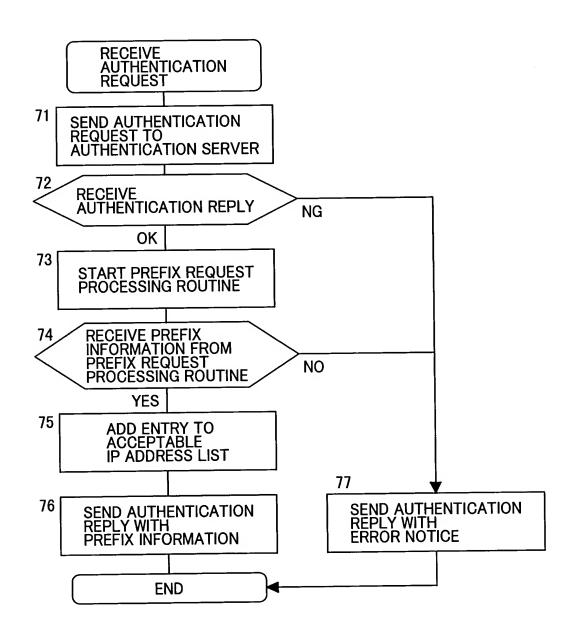


FIG.11

60 PREFIX REQUEST PROCESSING ROUTINE(GW)

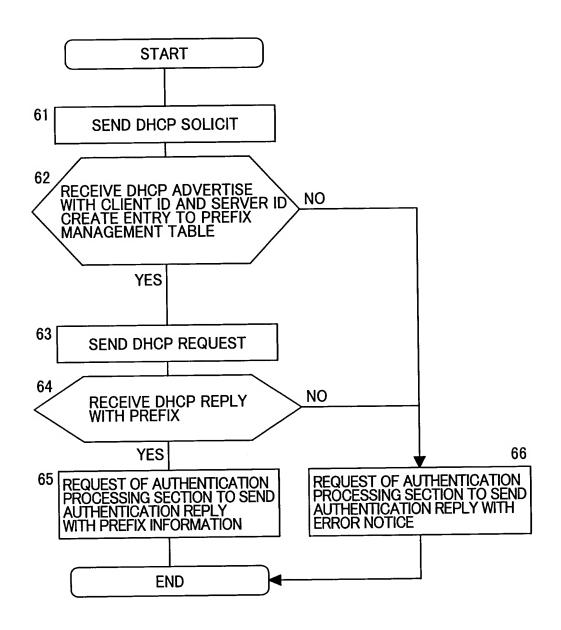


FIG.12

80 PREFIX DELEGATION PROCESSING ROUTINE(HA)

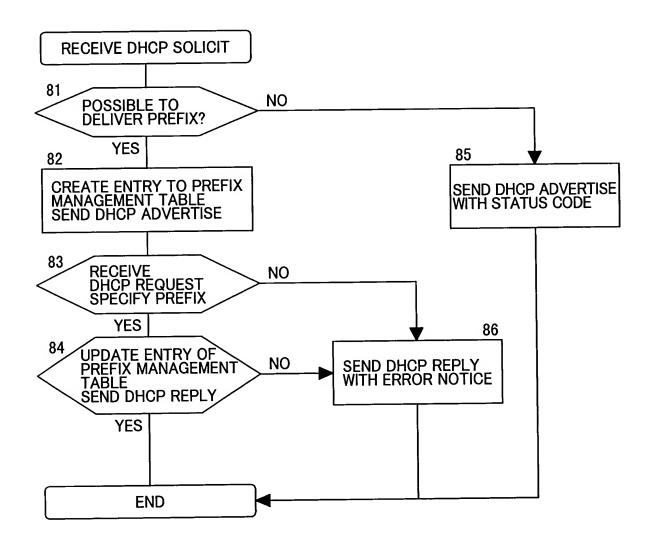


FIG.13

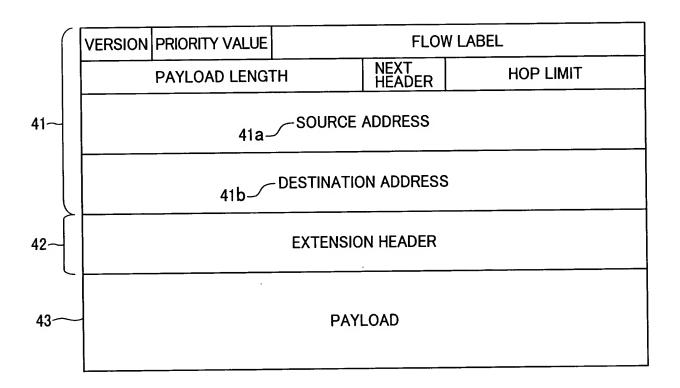


FIG.14

S1 EXAMPLE OF DHCPv6 PACKET FORMAT

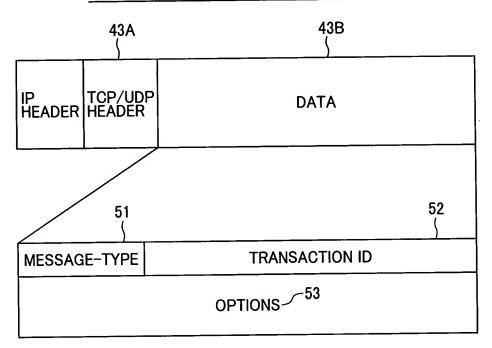


FIG.15

S2 EXAMPLE OF IA_PD OPTIONS FORMAT

| 531 | | | |
|---------------------------|---------------|--|--|
| OPTION CODE(OPTION_IA_PD) | OPTION-LENGTH | | |
| IAIC | 532 | | |
| T1 | | | |
| T2 | | | |
| IA_PD-OPTIONS533 | | | |

FIG.16

S3 EXAMPLE OF IA_PD PREFIX OPTIONS FORMAT

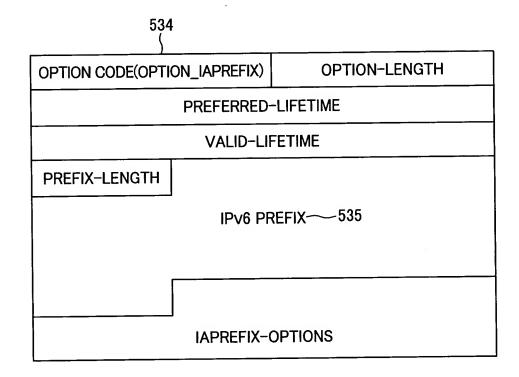


FIG.17

S11 HOME AGENT ADDRESS DISCOVERY REQUEST MESSAGE FORMAT

| IPV6 | TYPE | CODE (0) | CHECKSUM |
|------|-------|-------------|----------|
| | IDENT | TFIER | RESERVED |
| 411 | | | |

FIG.18

S12 HOME AGENT ADDRESS DISCOVERY REPLY MESSAGE FORMAT

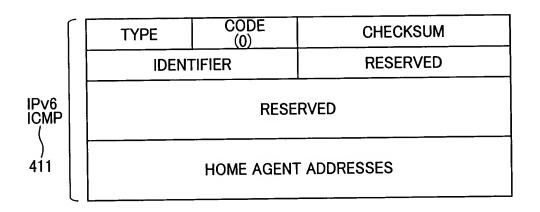


FIG.19

S13 BINDING UPDATE MESSAGE FORMAT

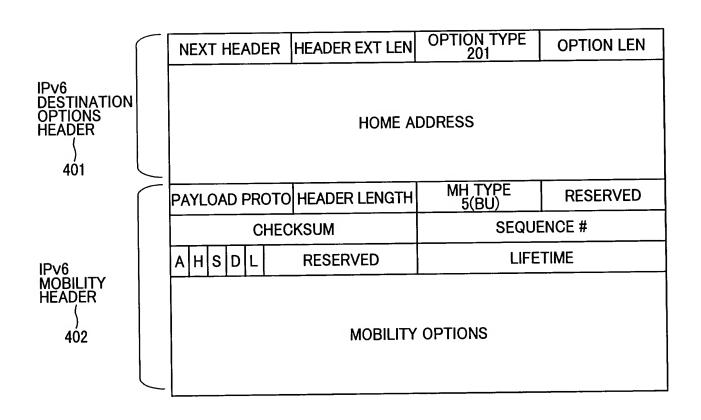


FIG.20

S14 BINDING ACKNOWLEDGEMENT MESSAGE FORMAT

| _ | 7 | | DOLLTING TYPE | OF OMENTS LEET | |
|----------------------------------|------------------|----------------|------------------|----------------|--|
| | NEXT HEADER | HEADER EXT LEN | ROUTING TYPE | SEGMENTS LEFT | |
| | | RESERVED | | | |
| IPv6 ROUTING HEADER 403 | HOME ADDRESS | | | | |
| | PAYLOAD PROTO | HEADER LENGTH | MH TYPE 6(BA) | RESERVED | |
| | CHECKSUM | | STATUS | RESERVED | |
| IPv6 MOBILITY | SEQUENCE # | | LIFETIME | | |
| HEADER 402 | MOBILITY OPTIONS | | | | |

FIG.21

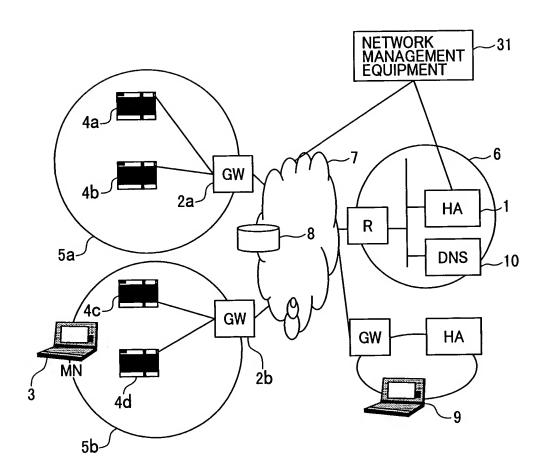


FIG.22

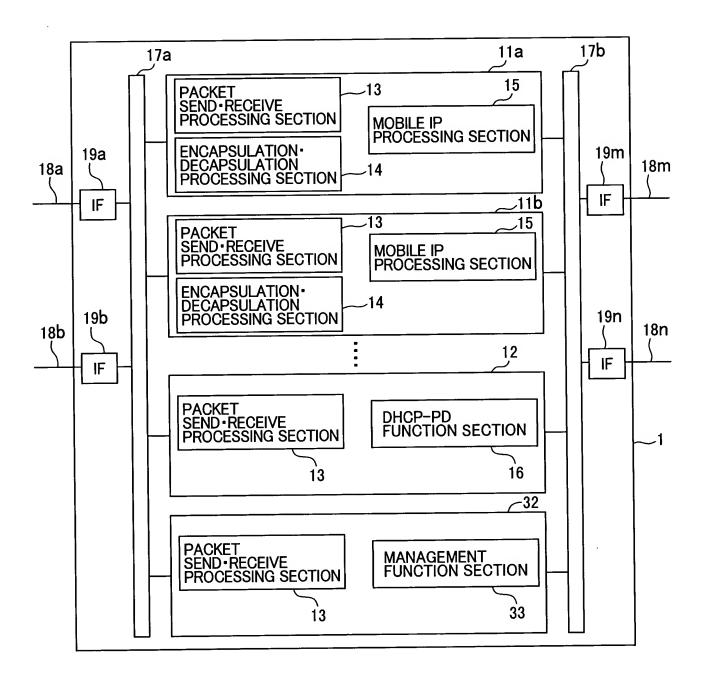


FIG.23

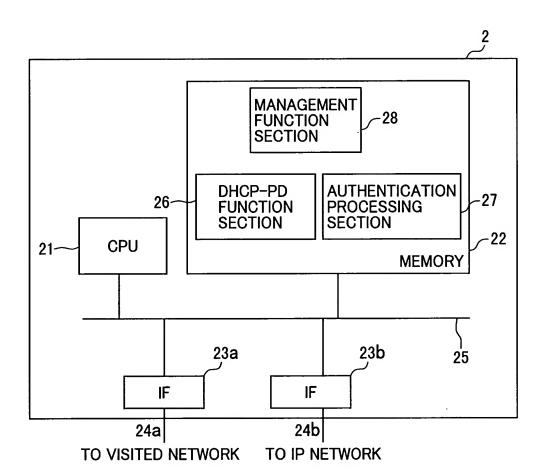


FIG.24

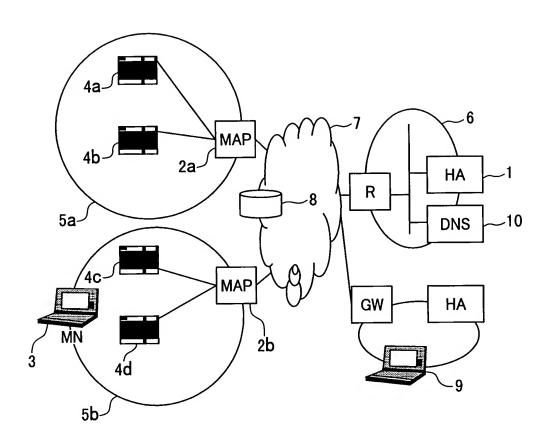


FIG.25

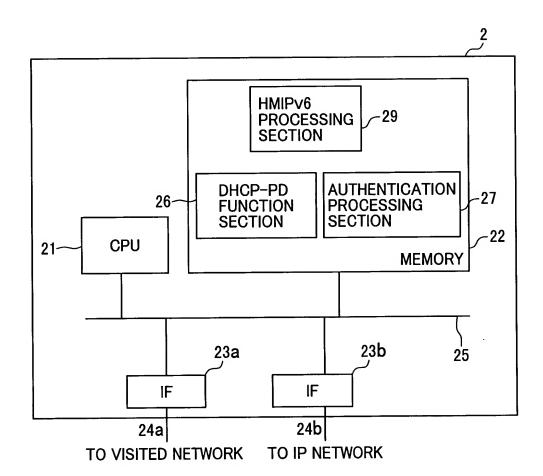


FIG.26

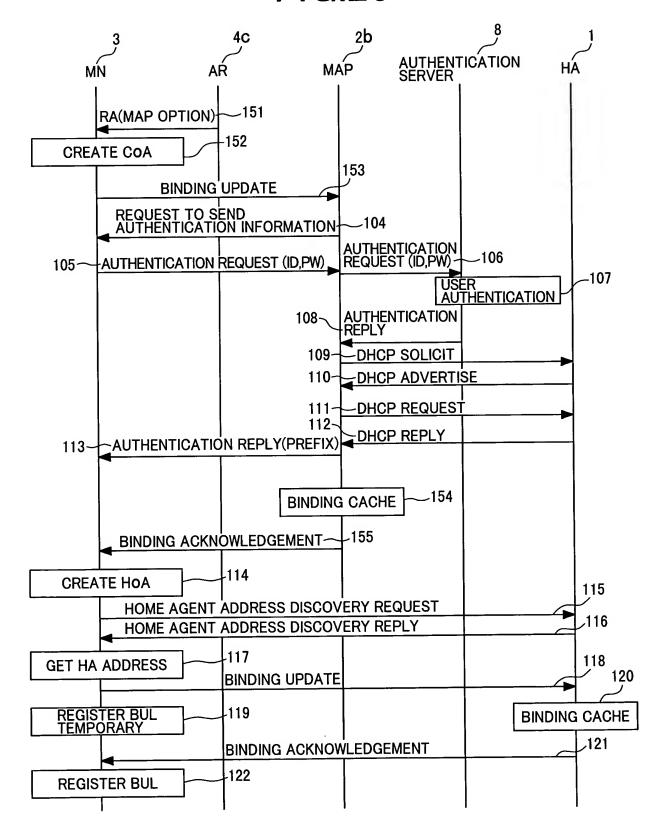


FIG.27

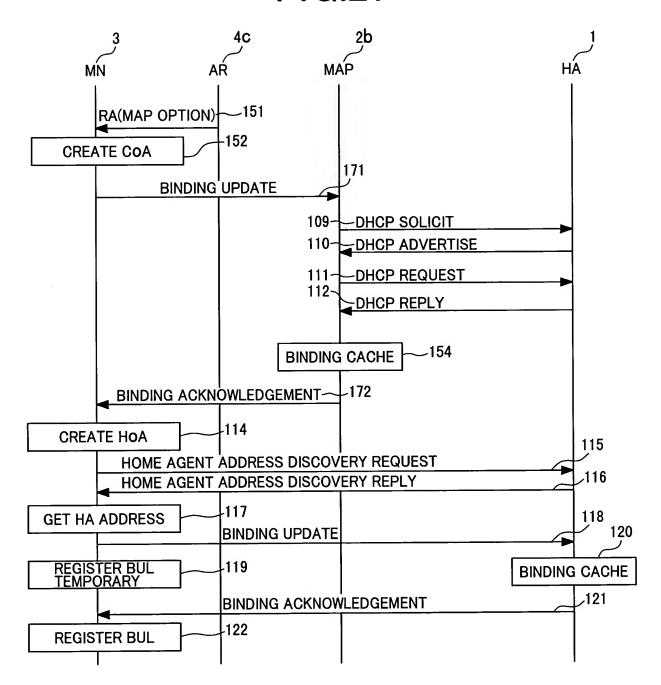


FIG.28

90 PREFIX REQUEST PROCESSING ROUTINE(GW)

